

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P841229

Luminaire Tested: **ARCH4-150-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

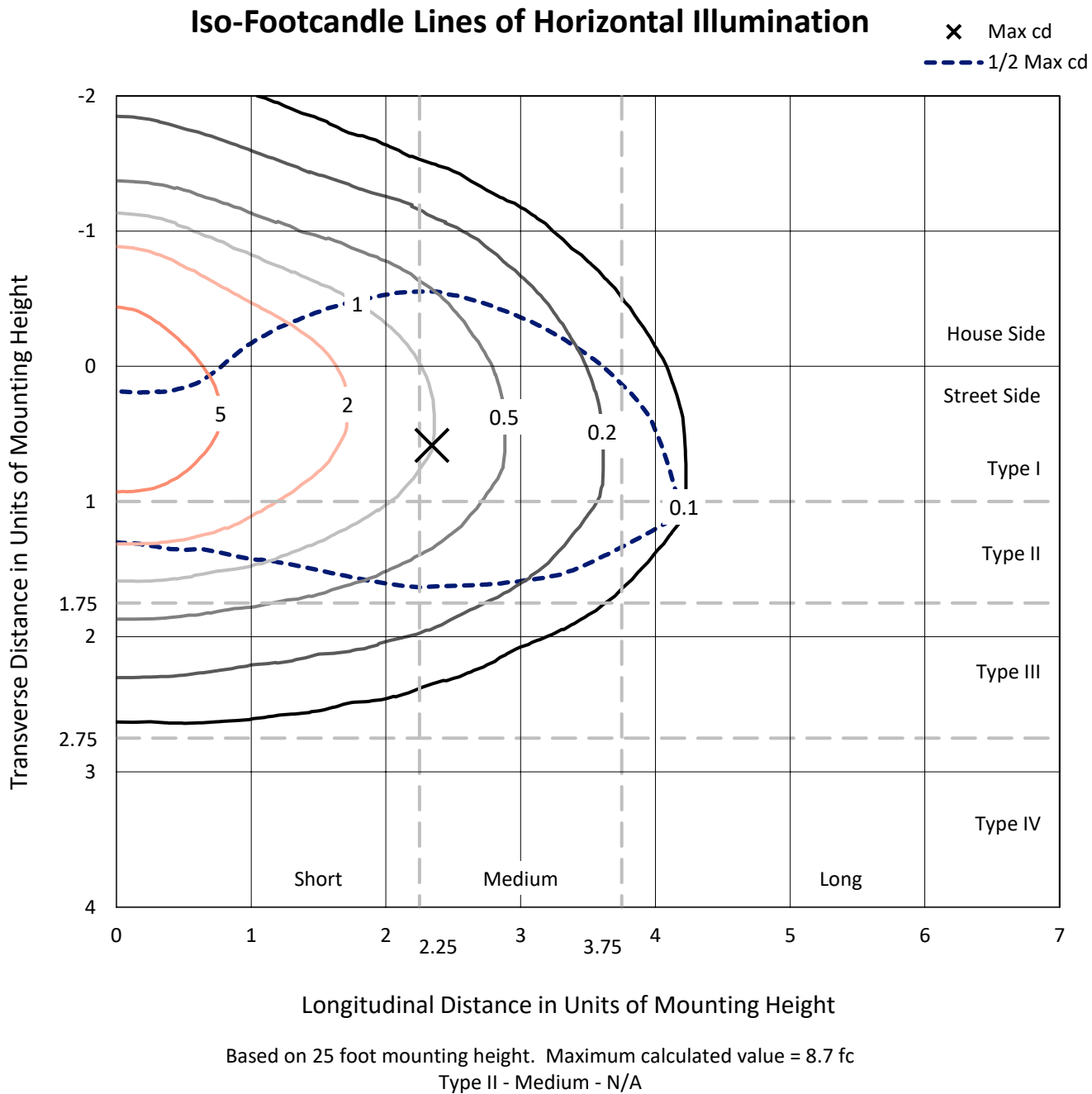
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23901 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

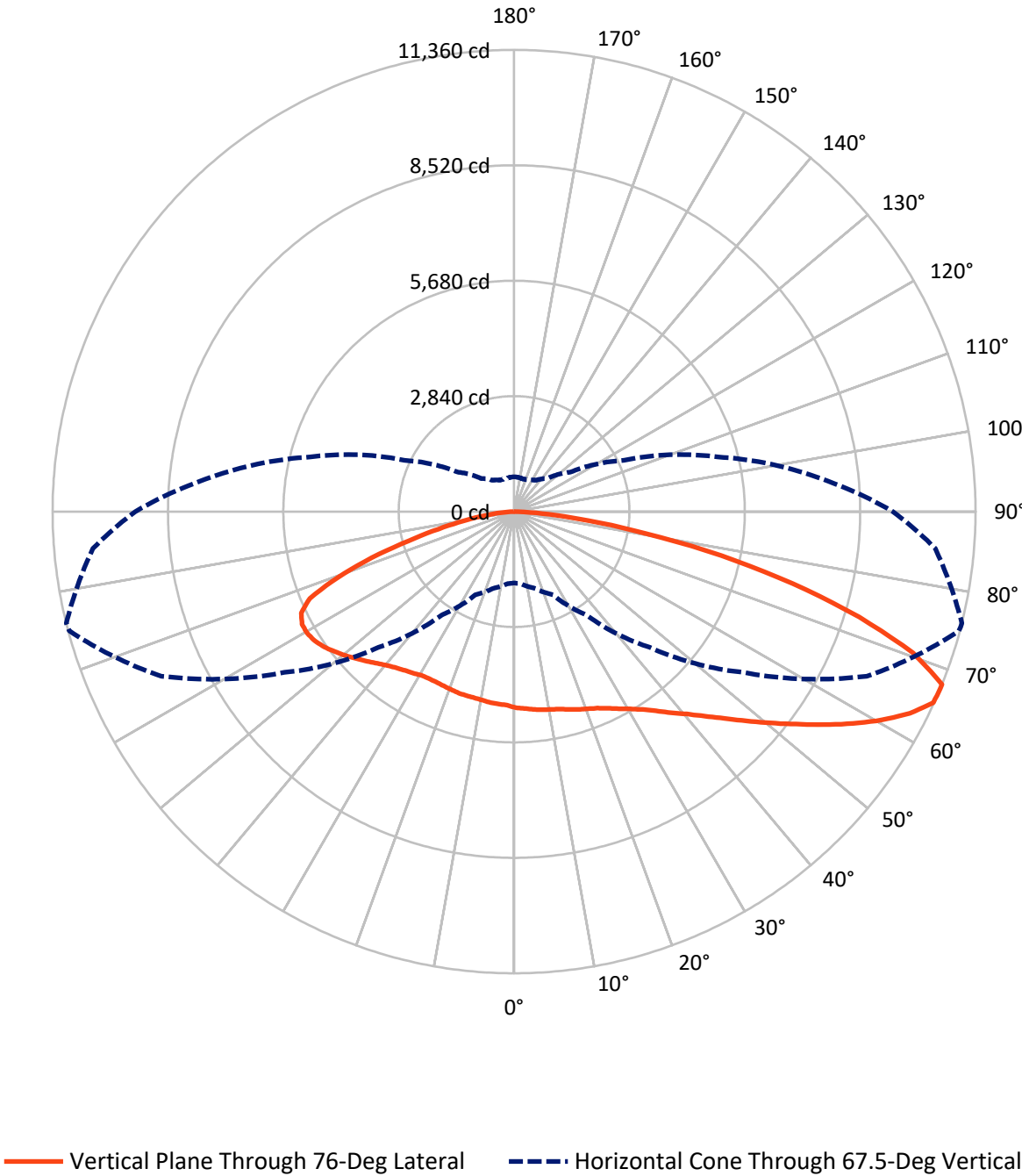


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8076.3	0.0	8076.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15824.7	0.0	15824.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	23901.0	0.0	23901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.5	1.9
10°-20°	1423.3	6.0
20°-30°	2418.2	10.1
30°-40°	3440.7	14.4
40°-50°	4345.5	18.2
50°-60°	4704.8	19.7
60°-70°	4376.0	18.3
70°-80°	2350.3	9.8
80°-90°	376.6	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23901.0	100.0
0°-180°	23901.0	100.0

Coefficient of Utilization



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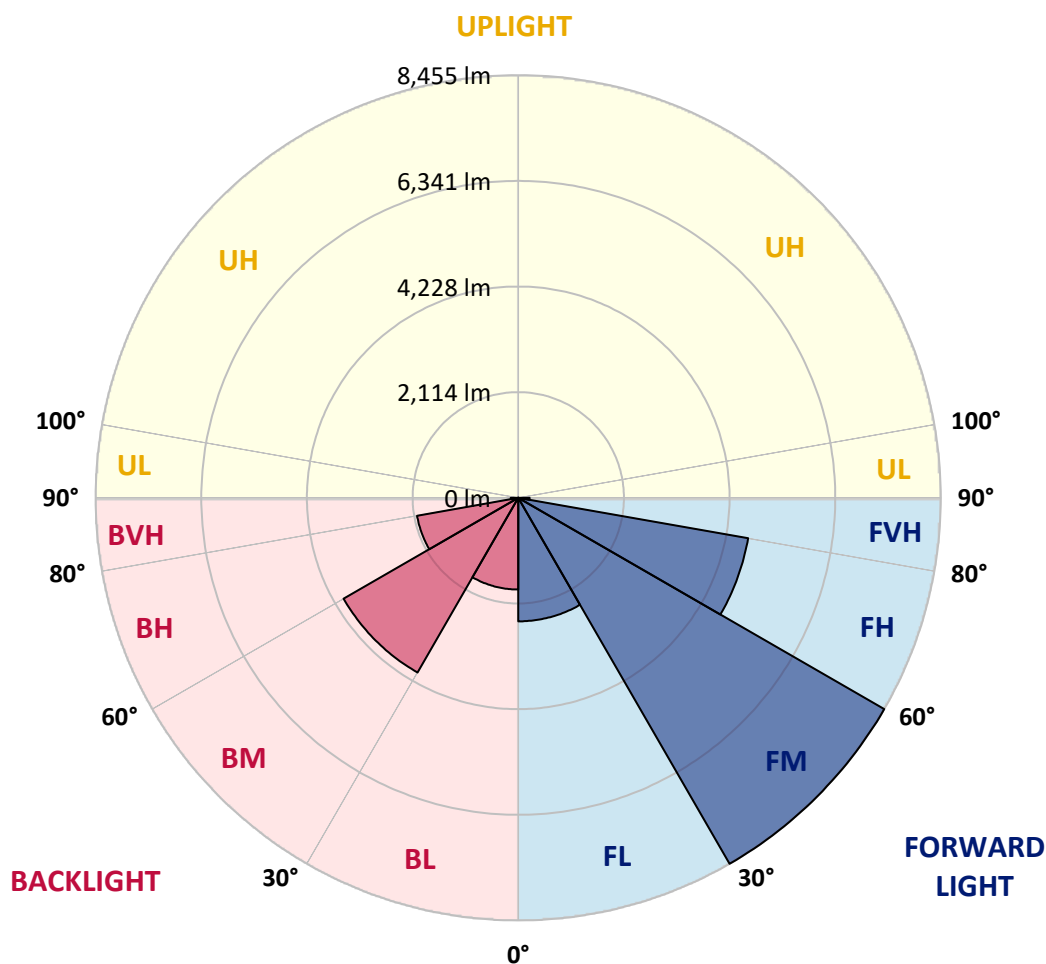
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2471.6	10.3			
FM	(30°-60°)	8455.3	35.4			
FH	(60°-80°)	4670.0	19.5			G2/5000
FVH	(80°-90°)	227.8	1.0			G3/500
BL	(0°-30°)	1835.4	7.7	B3/2500		
BM	(30°-60°)	4035.8	16.9	B3/5000		
BH	(60°-80°)	2056.3	8.6	B3/2500		G3/2500
BVH	(80°-90°)	148.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9
2.5°	4974.4	4965.5	4930.0	4934.4	4934.4	4930.0	4876.8	4854.6	4854.6	4850.1	4801.3
5°	5151.9	5138.6	5098.6	5089.8	5072.0	5049.8	4965.5	4916.7	4894.5	4890.1	4823.5
7.5°	5360.4	5342.7	5293.9	5267.3	5222.9	5165.2	5058.7	4983.3	4930.0	4925.6	4832.4
10°	5569.0	5551.3	5493.6	5444.8	5382.6	5289.4	5151.9	5040.9	4956.6	4947.8	4836.8
12.5°	5817.5	5799.8	5728.8	5666.6	5573.4	5449.2	5267.3	5116.4	5001.0	4987.7	4850.1
15°	6079.3	6052.7	5981.7	5910.7	5795.3	5635.6	5418.1	5218.4	5072.0	5049.8	4890.1
17.5°	6296.7	6261.2	6203.6	6132.6	6003.9	5817.5	5569.0	5320.5	5138.6	5120.8	4930.0
20°	6483.1	6456.5	6394.4	6327.8	6190.2	5986.1	5711.0	5422.6	5200.7	5178.5	4961.1
22.5°	6660.6	6625.1	6589.6	6540.8	6389.9	6163.6	5875.2	5546.8	5280.6	5253.9	5001.0
25°	6864.7	6824.8	6811.5	6784.9	6607.4	6376.6	6074.9	5702.1	5391.5	5360.4	5072.0
27.5°	7117.7	7073.3	7046.7	7046.7	6833.7	6594.1	6287.9	5884.1	5520.2	5493.6	5160.8
30°	7383.9	7330.7	7290.7	7290.7	7051.1	6811.5	6496.4	6066.0	5666.6	5635.6	5276.1
32.5°	7619.1	7565.9	7521.5	7517.0	7268.5	7028.9	6713.9	6265.7	5844.1	5804.2	5418.1
35°	7801.0	7752.2	7712.3	7721.2	7486.0	7250.8	6957.9	6531.9	6066.0	6021.6	5604.5
37.5°	7912.0	7894.2	7872.0	7903.1	7685.7	7463.8	7210.9	6789.3	6318.9	6279.0	5835.3
40°	7969.7	7956.4	8045.1	8085.0	7854.3	7654.6	7463.8	7055.6	6594.1	6549.7	6101.5
42.5°	8054.0	8164.9	8200.4	8191.5	7978.5	7801.0	7694.5	7344.0	6918.0	6878.1	6421.0
45°	7752.2	7725.6	7920.9	8027.4	7987.4	7894.2	7912.0	7690.1	7295.2	7255.2	6789.3
47.5°	7348.4	7312.9	7423.9	7685.7	7841.0	7929.7	8107.2	8049.5	7730.0	7694.5	7219.7
50°	6496.4	6545.2	6957.9	7308.5	7614.7	7920.9	8271.4	8435.6	8209.3	8173.8	7681.2
52.5°	5551.3	5600.1	6030.5	6838.1	7339.5	7854.3	8391.2	8821.7	8728.5	8688.5	8173.8
55°	4863.4	4969.9	5458.1	6043.8	6949.1	7645.7	8462.2	9216.6	9287.6	9252.1	8710.7
57.5°	4180.1	4260.0	4628.3	5147.4	6416.6	7281.9	8457.8	9584.9	9873.3	9837.8	9256.5
60°	3376.9	3479.0	3771.8	4331.0	5706.6	6847.0	8333.5	9873.3	10436.9	10410.3	9784.6
62.5°	2826.7	2857.7	3066.3	3550.0	4792.4	6296.7	8054.0	10028.6	10947.2	10929.4	10259.4
65°	2276.4	2280.9	2471.7	2875.5	3909.4	5613.4	7579.2	9971.0	11333.3	11342.1	10601.1
67.5°	1757.2	1779.4	1952.5	2258.7	3106.2	4725.9	6900.2	9580.5	11337.7	11359.9	10405.8
70°	1215.9	1233.6	1495.4	1792.7	2400.7	3767.4	5981.7	8546.5	10405.8	10423.6	9327.5
72.5°	856.4	865.3	1144.9	1433.3	1877.0	2840.0	4512.9	7068.9	8870.5	8883.8	7845.4
75°	639.0	647.9	807.6	1087.2	1437.7	1965.8	3084.0	5413.7	7086.6	7086.6	6194.7
77.5°	452.6	457.1	523.6	749.9	958.5	1326.8	1854.9	3545.5	5200.7	5209.6	4512.9
80°	306.2	310.6	341.7	505.9	599.1	718.9	1007.3	1859.3	3279.3	3292.6	2866.6
82.5°	159.7	168.6	190.8	257.4	301.7	399.4	519.2	945.2	1814.9	1850.4	1721.7
85°	62.1	62.1	71.0	84.3	110.9	155.3	239.6	359.4	820.9	847.6	758.8
87.5°	22.2	22.2	26.6	26.6	31.1	35.5	39.9	53.2	93.2	93.2	88.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9	4827.9
2.5°	4783.6	4783.6	4761.4	4770.3	4765.8	4756.9	4748.1	4761.4	4748.1	4717.0	4712.6
5°	4792.4	4783.6	4748.1	4743.6	4730.3	4712.6	4690.4	4699.3	4677.1	4650.5	4646.0
7.5°	4796.9	4779.1	4730.3	4712.6	4686.0	4650.5	4615.0	4615.0	4583.9	4557.3	4552.8
10°	4788.0	4765.8	4699.3	4663.8	4615.0	4561.7	4512.9	4499.6	4464.1	4433.0	4433.0
12.5°	4792.4	4761.4	4677.1	4619.4	4552.8	4486.3	4424.1	4406.4	4375.3	4344.3	4339.8
15°	4819.1	4774.7	4668.2	4592.8	4495.1	4419.7	4353.1	4339.8	4313.2	4291.0	4291.0
17.5°	4845.7	4788.0	4654.9	4548.4	4428.6	4344.3	4282.1	4282.1	4264.4	4251.1	4251.1
20°	4859.0	4792.4	4628.3	4486.3	4348.7	4260.0	4202.3	4211.1	4206.7	4202.3	4202.3
22.5°	4890.1	4801.3	4606.1	4428.6	4264.4	4171.2	4118.0	4131.3	4126.8	4126.8	4131.3
25°	4938.9	4823.5	4588.3	4375.3	4184.5	4082.5	4024.8	4033.6	4033.6	4033.6	4033.6
27.5°	5005.4	4867.9	4583.9	4326.5	4104.6	3989.3	3918.3	3918.3	3900.5	3905.0	3909.4
30°	5107.5	4952.2	4592.8	4282.1	4020.3	3873.9	3789.6	3776.3	3771.8	3780.7	3785.1
32.5°	5231.8	5067.6	4646.0	4251.1	3931.6	3745.2	3638.7	3634.3	3621.0	3621.0	3621.0
35°	5387.1	5178.5	4694.8	4246.6	3842.8	3607.6	3492.3	3479.0	3447.9	3434.6	3434.6
37.5°	5586.8	5351.6	4752.5	4215.6	3767.4	3474.5	3337.0	3292.6	3257.1	3252.7	3252.7
40°	5830.8	5546.8	4836.8	4180.1	3687.5	3337.0	3155.0	3079.6	3084.0	3101.8	3101.8
42.5°	6119.2	5786.4	4943.3	4162.3	3572.1	3195.0	2942.0	2853.3	2884.3	2902.1	2906.5
45°	6456.5	6070.4	5063.1	4140.1	3465.7	3035.2	2715.7	2604.8	2618.1	2622.5	2627.0
47.5°	6847.0	6385.5	5187.4	4122.4	3345.8	2835.5	2467.2	2320.8	2316.4	2289.7	2298.6
50°	7255.2	6718.3	5316.1	4091.3	3199.4	2600.3	2205.4	2032.4	1996.9	1956.9	1961.4
52.5°	7690.1	7060.0	5435.9	4042.5	3017.5	2360.7	1956.9	1770.5	1699.5	1655.2	1664.0
55°	8169.4	7410.5	5551.3	3967.1	2826.7	2121.1	1735.0	1544.2	1455.5	1420.0	1424.4
57.5°	8608.7	7747.8	5635.6	3873.9	2618.1	1903.7	1539.8	1353.4	1295.7	1291.3	1295.7
60°	9034.7	8031.8	5671.1	3745.2	2405.1	1704.0	1357.9	1215.9	1175.9	1198.1	1202.5
62.5°	9394.1	8213.7	5653.3	3572.1	2187.7	1513.2	1211.4	1109.4	1082.7	1127.1	1131.6
65°	9602.6	8271.4	5529.1	3323.7	1952.5	1326.8	1073.9	962.9	949.6	976.2	989.6
67.5°	9327.5	7912.0	5191.8	2982.0	1690.7	1153.7	940.7	852.0	829.8	852.0	852.0
70°	8267.0	6855.9	4393.1	2440.6	1402.2	985.1	816.5	754.4	736.6	754.4	749.9
72.5°	6886.9	5702.1	3461.2	1903.7	1104.9	829.8	710.0	652.3	634.6	616.8	607.9
75°	5342.7	4331.0	2511.6	1397.8	834.2	665.6	594.6	541.4	497.0	514.7	505.9
77.5°	3913.8	3039.7	1779.4	967.4	599.1	514.7	465.9	426.0	394.9	430.4	426.0
80°	2520.5	1965.8	1189.2	647.9	412.7	359.4	341.7	319.5	350.6	457.1	465.9
82.5°	1539.8	1246.9	710.0	421.6	270.7	239.6	221.9	221.9	359.4	394.9	399.4
85°	687.8	661.2	386.1	217.4	150.9	137.6	124.2	159.7	146.4	106.5	110.9
87.5°	110.9	115.4	84.3	75.4	57.7	57.7	44.4	31.1	22.2	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)